

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

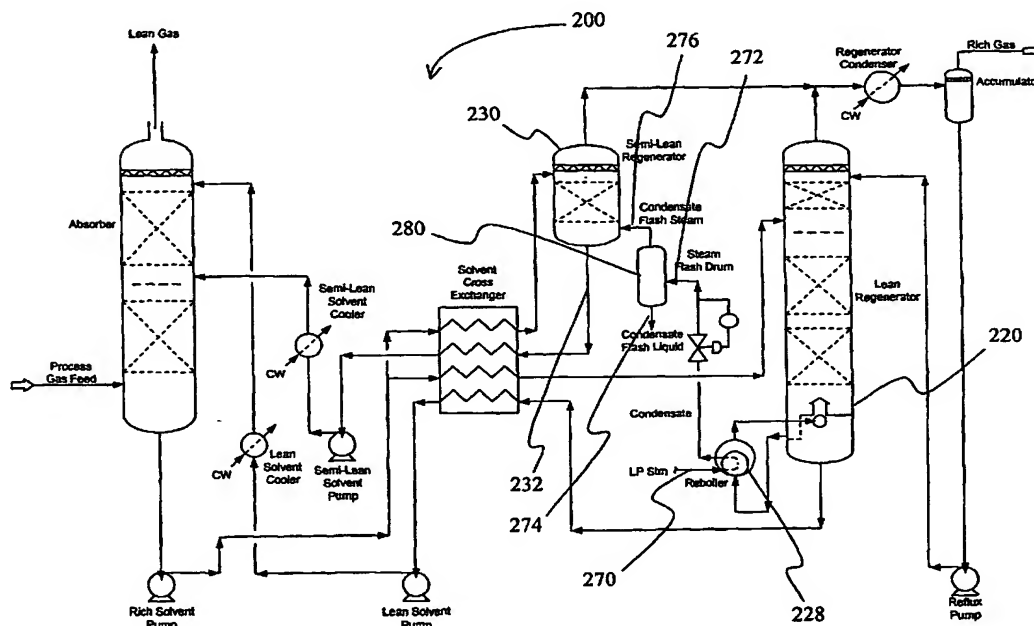
(10) International Publication Number
WO 2004/005818 A2

- (51) International Patent Classification⁷: **F25J**
- (21) International Application Number:
PCT/US2003/021194
- (22) International Filing Date: 3 July 2003 (03.07.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/393,595 3 July 2002 (03.07.2002) US
60/467,719 2 May 2003 (02.05.2003) US
- (71) Applicant (for all designated States except US): **FLUOR CORPORATION** [US/US]; One Enterprise Drive, Aliso Viejo, CA 92656 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **REDDY, Satish** [US/US]; Fluor Corporation, One Enterprise Drive, Aliso Viejo, CA 92656 (US). **SCHERFFIUS, Jeff** [US/US];

- Fluor Corporation, One Enterprise Drive, Aliso Viejo, CA 92656 (US). **GILMARTIN, John** [US/US]; Fluor Corporation, One Enterprise Drive, Aliso Viejo, CA 92656 (US). **FREGUIA, Stefano** [US/US]; Fluor Corporation, One Enterprise Drive, Aliso Viejo, CA 92656 (US).
- (74) Agent: **FESSENMAIER, Martin**; Rutan & Tucker, LLP, 611 Anton Blvd., Suite 1400, Costa Mesa, CA 92626 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: IMPROVED SPLIT FLOW PROCESS AND APPARATUS



(57) Abstract: An acid gas removal plant includes an absorber that provides a rich solvent to two regenerators that independently generate a lean and a semi-lean solvent, wherein the semi-lean solvent is produced in one of the regenerators using heat and/or steam derived from the other regenerator. Further heat integration is particularly contemplated with power plants in which the power plant provides high-level heat to the acid gas removal plant and wherein the power plant receives low-level heat from the acid gas removal plant.



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *without international search report and to be republished upon receipt of that report*